

Amendments to the Claims

Claims 1-72 are cancelled.

Claim 73 (currently amended): A transgenic plant expressing a recombinant animal viral antigen protein, said protein capable of inducing a mucosal immune response when administered being antigenic to a human or an animal.

Claim 74 (original): The plant of claim 73 wherein said protein is chimeric by being fused to another peptide, polypeptide or protein.

Claim 75 (original): The plant of claim 73 wherein said plant is a tomato plant.

Claim 76-82 (cancelled)

Claim 83 (currently amended): A transgenic plant expressing a recombinant animal viral antigen protein, said protein expressed at a level of about ~~0.03%~~ 3-10 ng/mg or more of total soluble protein.

Claim 84 (currently amended): The plant of claim 83 wherein said protein is expressed at a level of about ~~0.05%~~ 25-65 ng/mg or more.

Claims 85-87 (cancelled)

D₂
Claim 88 (currently amended): The transgenic plant of claim 73, said plant comprising plant tissue, wherein the plant tissue, when is administered orally ~~administered to the animal, elicits an~~ antigenic response.

Claim 89 and 90 (cancelled)

Claim 91 (original): The transgenic plant of claim 73 comprising plant tissue, wherein at least some of the plant tissue is edible by animals.

Claim 92-97 (cancelled)

D₃
Claim 98 (currently amended): A transgenic plant having plant tissue wherein said plant tissue is expressing a recombinant protein, said protein expressed at a level such that when said plant tissue is orally administered to the animal, ~~an~~ a mucosal immune response is elicited against an animal viral antigen.

Claim 99 (previously amended): A plant comprising a viral antigen which triggers production of antibodies and which is derived from a hepatitis B virus surface antigen or transmissible gastroenteritis virus spike protein, said antigen being a product produced by the method of: expressing said immunogen in a transgenic plant, said transgenic plant being in a form chosen from the group consisting of a whole plant, plant part, or a crude plant extract.

D₄
Claim 100 (currently amended): A plant comprising a protein which triggers ~~production of antibodies~~ a mucosal immune response to a viral protein, said protein being a product produced by the method of: expressing said protein in a transgenic plant, said transgenic plant being in a form chosen from the group consisting of a whole plant, plant part, or a crude plant extract.